03050103-070

(Tinkers Creek)

General Description

Watershed 03050103-070 is located in York and Chester Counties and consists primarily of ***Tinkers Creek*** and its tributaries. The watershed occupies 16,973 acres of the Piedmont region of South Carolina. The predominant soil types consist of an association of the Pacolet-Cecil-Wilkes-Madison series. The erodibility of the soil (K) averages 0.28; the slope of the terrain averages 10%, with a range of 2-40%. Land use/land cover in the watershed includes: 77.5% forested land, 11.3% agricultural land, 10.0% scrub/shrub land, 0.7% water, 0.4% urban land, and 0.1% barren land.

Tinkers Creek accepts the drainage of Rum Branch and Neelys Creek before draining into Fishing Creek. There are a total of 40.5 stream miles in this watershed and a few ponds (totaling15.1 acres) used for flood control and recreation, all classified FW.

Water Quality

Station #	Type	Class	Description
CW-227	S	FW	NEELYS CREEK AT 2-46-997
CW-234	W/BIO	FW	TINKERS CREEK AT S-12-599

Tinkers Creek (CW-234) - Aquatic life uses are partially supported based on macroinvertebrate data, compounded by a single dissolved oxygen and a single pH excursion. Recreational uses are partially supported due to fecal coliform bacteria excursions.

Neelys Creek (CW-227) - Aquatic life uses are fully supported. There is a significant decreasing trend in pH. Recreational uses are partially supported due to fecal coliform bacteria excursions.

NPDES Program

Active NPDES Facilities

RECEIVING STREAM	***NPDES#***
FACILITY NAME	***TYPE***
PERMITTED FLOW @ PIPE (MGD)	***LIMITATION***
COMMENT	
NEELYS CREEK	SC0041904
NEELYS CREEK HOMES, INC.	MINOR DOMESTIC
PIPE #: 001 FLOW: .008	WATER QUALITY
WQL FOR NH3-N, TRC	
NEELYS CREEK TRIBUTARY	SC0027341
JACK NELSON ENTERPRISES	MINOR DOMESTIC
PIPE #: 001 FLOW: .012	WATER QUALITY
WQL FOR NH3-N, TRC, DO	

Growth Potential

This watershed is primarily rural, with some residential density in the extreme northern section as a result of the City of Rock Hill. Water service is available only in this limited area, otherwise no utilities are available, and there is little indication of future growth. There are substantial areas of forests, with some forestry activity.

Watershed Protection and Restoration

Special Projects

NPS Assessment and TMDL for Phosphorus in the Catawba River Basin

SCDHEC has contracted with the University of South Carolina to quantify relationships between land use and water quality in the Catawba River Basin. The project will evaluate these relationships using the WARMF model, which will be used to develop a TMDL for total phosphorus in Fishing Creek Reservoir, Cedar Creek Reservoir, and Lake Wateree. The TMDL is being developed in cooperation with the North Carolina Division of Water Quality and will involve stakeholders in the basin. Additional information about the TMDL development process can be found in Appendix B.